EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	2	"20030118002".did.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/14 13:43
S1	42	(CABEZAS-R CABEZAS-RAFAEL-G CABEZAS-RAFAEL-GRANIELLO DANG-ANH-TUAN HUA-BINH MOORE-JASON MORE-JASON-E MOORE-JASON-ERIC MOORE-JASON-E-E SILVIA-E SILVIA-ELIZABETH).in.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/27 13:30
S2	9	("6493340" "5708654" "6609152" "6363423").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/27 13:38
S3	126	714/53.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/14 13:32
S4	1636	714/4.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/06 13:48
S5	7	714/4.ccls. and (duplicat$3 adj address)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/28 15:18
S6	797	714/43.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:15
S7	2	714/43.ccls. and (duplicat$3 adj address)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/28 09:15
S8	634	714/4.ccls. and packet	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/28 08:35

EAST Search History

S9	2	714/4.ccls. and packet with (("first protocol") and ("second protocol"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/28 08:37
S10	0	714/43.ccls. and packet with (("first protocol") and ("second protocol"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/28 09:16
S11	903	(duplicat$3 adj address)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/28 08:46
S12	4	(duplicat$3 adj address) and packet with (("first protocol") and ("second protocol"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/28 16:17
S13	259	726/13.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/28 09:15
S14	3	726/13.ccls. and (duplicat$3 adj address)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/28 09:15
S15	0	726/13.ccls. and packet with (("first protocol") and ("second protocol"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:39
S16	356	packet with (("first protocol") and ("second protocol"))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/28 13:33
S17	327	370/395.5.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:51
S18	97	370/395.54.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:50

EAST Search History

S19	0	370/395.5.ccls. and (duplicat$3 adj address)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/28 15:18
S20	0	370/395.5.ccls. and (duplicat$3 adj2 address)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/28 15:18
S21	0	(370/395.5).ccls. and (duplicat$3 adj2 address)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/28 15:19
S22	3	(370/395.5).ccls. and (duplicat$3 with address)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/28 15:19
S23	377	address adj collision	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/28 16:08
S24	13	(duplicat$3 adj3 address) and (packet with (("first protocol") and ("second protocol")))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/28 16:42
S25	4	714/53.ccls. and @pd>="20060928"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/06 13:43
S26	120	714/4.ccls. and @pd>="20060928"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/06 13:48
S27	43	714/43.ccls. and @pd>="20060928"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:15
S28	45	726/13.ccls. and @pd>="20060928"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:40

EAST Search History

S29	11	370/395.54.ccls. and @pd>="20060928"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:50
S30	32	370/395.5.ccls. and @pd>="20060928"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 14:06
S31	398	packet with ("first protocol" and "second protocol")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/14 13:33
S32	2	packet with ("first protocol" and "second protocol") with ("first address" and "second address")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/12 14:12
S33	0	packet with ("first protocol" and "second protocol") with ("two addresses")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/12 14:13
S34	399	packet with ("first protocol" and "second protocol")	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/12 14:13
S35	54	packet with ("first protocol" and "second protocol") with address	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/12 14:13

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	5	714/53.ccls.	US-PGPUB	OR	ON	2007/03/14 13:32
L3	193	packet with ("first protocol" and "second protocol")	US-PGPUB	OR	ON	2007/03/14 13:33

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1 Enhancing location privacy in wireless LAN through disposable interface identifiers: a quantitative analysis

Marco Gruteser, Dirk Grunwald

June 2005 **Mobile Networks and Applications**, Volume 10 Issue 3

Publisher: Kluwer Academic Publishers

Full text available: pdf(2.31 MB) Additional Information: full citation, abstract, references, index terms

The recent proliferation of wireless local area networks (WLAN) has introduced new location privacy risks. An adversary controlling several access points could triangulate a client's position. In addition, interface identifiers uniquely identify each client, allowing tracking of location over time. We enhance location privacy through frequent disposal of a client's interface identifier. While not preventing triangulation per se, it protects against an adversary following a user's movements over ...

Keywords: location privacy, wireless LAN

2 High performance communications in processor networks

C. R. Jesshope, P. R. Miller, J. T. Yantchev

April 1989 **ACM SIGARCH Computer Architecture News , Proceedings of the 16th annual international symposium on Computer architecture ISCA '89**, Volume 17 Issue 3

Publisher: ACM Press

Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, references, citings, index terms

In order to provide an arbitrary and fully dynamic connectivity in a network of processors, transport mechanisms must be implemented, which provide the propagation of data from processor to processor, based on addresses contained within a packet of data. Such data transport mechanisms must satisfy a number of requirements - deadlock and livelock freedom, good hot-spot performance, high throughput and low latency. This paper proposes a solution to these problems, which allows deadlock free, ...

3 Mobility support in IPv6

Charles E. Perkins, David B. Johnson

November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking MobiCom '96**

Publisher: ACM Press
Full text available: pdf(1.37 MB) Additional Information: full citation, references, citings, index terms

4 The future leading mobility protocol: mobile IPv4 OR Mobile IPv6?
Victor A. Clincy, Padmaja Mudiraj
October 2006 **Journal of Computing Sciences in Colleges**, Volume 22 Issue 1
Publisher: Consortium for Computing Sciences in Colleges
Full text available: pdf(1.92 MB) Additional Information: full citation, abstract, references, index terms

Mobile computing has become an important area of computer networking and is expected to play a fundamental role in the ubiquitous access of Internet resources in the future. In recent years, we have seen increasing demand from end-users to access network resources from anywhere and at anytime from all kinds of devices. A greater degree of connectivity is almost becoming mandatory in todays business world. In addition, mobility of end-users is placing further requirements on network systems and p ...

5 Integrated personal mobility architecture: a complete personal mobility solution
Binh Thai, Rachel Wan, Aruna Seneviratne, Thierry Rakotoarivelo
February 2003 **Mobile Networks and Applications**, Volume 8 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: pdf(208.62 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The high expectations and demand for users to access the Internet from anywhere at anytime has made user mobility an important part of the design and development of the next generation mobile communications and computing. Traditionally user mobility has been divided into two areas: Terminal Mobility and Personal Mobility. In recent years terminal mobility has focused on the movement of the terminal and developed extensions to IP protocols such as Mobile IP. In contrast, personal mobility has onl ...

Keywords: mobile agents, personal communications, personal mobility

6 Protocols: Weak duplicate address detection in mobile ad hoc networks
Nitin H. Vaidya
June 2002 **Proceedings of the 3rd ACM international symposium on Mobile ad hoc networking & computing MobiHoc '02**
Publisher: ACM Press
Full text available: pdf(216.31 KB) Additional Information: full citation, abstract, references, citings, index terms

Auto-configuration is a desirable goal in implementing mobile ad hoc networks. Specifically, automated dynamic assignment (without manual intervention) of IP addresses is desirable. In traditional networks, such dynamic address assignment is often performed using the Dynamic Host Configuration Protocol (DHCP). Implementing DHCP, however, requires access to a DHCP server. In mobile ad hoc networks, it is difficult to guarantee access to a DHCP server, since ad hoc networks can become partitioned ...

Keywords: auto-configuration, duplicate address detection, mobile ad hoc networks

7 W2F2Q: packet fair queuing in wireless packet networks
Yung Yi, Yongho Seok, Taekyoung Kwon, Yanghee Choi, Junseok Park
August 2000 **Proceedings of the 3rd ACM international workshop on Wireless mobile multimedia WOWMOM '00**

Publisher: ACM Press
Full text available: pdf(946.51 KB) Additional Information: full citation, abstract, references, index terms

Recently, there is a growing interest in wireless packet communications due to the explosive growth in wireless communications and the Internet. In this stage, quality of service (QoS) provisioning in wireless/mobile packet networks is becoming more and more important. A key factor in QoS provisioning is packet-scheduling. However, conventional scheduling algorithms in wired network cannot be directly applicable to wireless communication environments because of wireless-specific characteris ...

Keywords: fair queuing, packet scheduling, wireless packet network

8 Securing IPv6 neighbor and router discovery

Jari Arkko, Tuomas Aura, James Kempf, Vesa-Matti Mäntylä, Pekka Nikander, Michael Roe
September 2002 **Proceedings of the 3rd ACM workshop on Wireless security WiSE '02**
Publisher: ACM Press

Full text available: pdf(113.58 KB) Additional Information: full citation, abstract, references, citings, index terms

When IPv6 Neighbor and Router Discovery functions were defined, it was assumed that the local link would consist of mutually trusting nodes. However, the recent developments in public wireless networks, such as WLANs, have radically changed the situation. The nodes on a local link cannot necessarily trust each other any more, but they must become mutually suspicious even when the nodes have completed an authentication exchange with the network. This creates a number of operational difficulties a ...

Keywords: autoconfiguration, detection, duplicate address, identity-based cryptosystems, neighbor discovery, router discovery

9 Mobile computing and applications (MCA): Distributed IPv6 addressing technique for mobile ad-hoc networks

Dongkeun Lee, Jaepil Yoo, Hyunsik Kang, Keecheon Kim, Kyunglim Kang
April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**
Publisher: ACM Press
Full text available: pdf(108.39 KB) Additional Information: full citation, abstract, references, index terms

Connecting to the Internet through the nodes of an ad-hoc network is very challenging and necessary. We studied a MANET topology in which all nodes in this MANET need to be connected to the Internet through a special node called the Internet Gateway. Traditional IPv6 Duplicate address Detection(DAD) process cannot be applied for this topology without any modification. In this paper, we propose a stateful IPv6 auto-configuration scheme that can replace DHCPv6 for ad-hoc networks. Our simulation s ...

Keywords: MANET, auto-configuration

10 A Comprehensive and Efficient Handoff Procedure for IPv6 Mobility Support

Christian Vogt
June 2006 **Proceedings of the 2006 International Symposium on on World of Wireless, Mobile and Multimedia Networks WOWMOM '06**
Publisher: IEEE Computer Society
Full text available: pdf(224.14 KB) Additional Information: full citation, abstract, index terms

Handoff performance with Mobile IPv6 Route Optimization strongly depends on the efficiency of IP-layer autoconfiguration mechanisms as well as the flexibility of mobile

nodes to schedule and parallelize their signaling. This paper provides a comprehensive analysis of the handoff performance with the standard IPv6 protocol suite and Mobile IPv6, and it identifies several sources for delay. While some of the delays are already well known, an optimized and widely applicable handoff approach is yet ...

11 Joint design of routing and medium access control for hybrid mobile ad hoc networks

Xiaojiang Du, Dapeng Wu
January 2007 **Mobile Networks and Applications**, Volume 12 Issue 1
Publisher: ACM Press
Full text available: pdf(375.29 KB) Additional Information: full citation, abstract, references, index terms

Efficient routing and medium access control (MAC) are very important for Mobile Ad hoc Networks (MANETs). Most existing routing and MAC protocols consider homogeneous ad hoc networks, in which all nodes are modeled as the same, i.e., they have the same communication capabilities and characteristics. Although a homogeneous network model is simple and easy to analyze, it misses important characteristics of many realistic MANETs such as military battlefield ad hoc networks. In addition, a homogeneo ...

Keywords: hybrid mobile ad hoc networks, medium access control, routing

12 Papers from MC²R open call: An end-system approach to mobility management for 4G networks and its application to thin-client computing

Leo Patanapongpibul, Glenford Mapp, Andy Hopper
July 2006 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 10 Issue 3
Publisher: ACM Press
Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, index terms

This paper describes work centred around providing greater autonomy for mobile nodes to roam in Mobile IPv6 wireless networks based on a new handoff mechanism. This technique, called the Client-based Handoff, enables mobile nodes to roam in foreign wireless networks without having to be controlled by the network infrastructure. The mechanism incorporates three algorithms: a router advertisement cache, the invocation of TCP mechanisms and techniques to handle subnetwork outages in order to reduce ...

13 Design and evaluation of a distributed asynchronous VLSI crossbar switch controller for a packet switched supercomputer network

Andrew J. DuBois, John Rasure
July 1991 **ACM SIGARCH Computer Architecture News**, Volume 19 Issue 4
Publisher: ACM Press
Full text available: pdf(706.70 KB) Additional Information: full citation, abstract, index terms

A key component in a new high-speed prototype network, called the Multiple Crossbar Network (MCN) being developed at Los Alamos National Laboratory, is a crossbar switching core and its controller. This switching core allows for up to 32 (800 Mbit/second) connections to pass through it simultaneously. The motivation for this network is to allow visualization data to be sent at movie rate speeds to a users workstation from a supercomputer. This paper reviews the key concepts and components of the ...

14 W2-B: mobile computing symposium: An enhanced fast handover scheme for mobile IPv6

Ruidong Li, Jie Li
July 2006 **Proceeding of the 2006 international conference on Communications and mobile computing IWCMC '06**

Publisher: ACM Press
Full text available: pdf(161.19 KB) Additional Information: full citation, abstract, references, index terms

Mobile IPv6 is the next generation wireless internet protocol to support IP mobility. One of the most important challenges in Mobile IPv6 is to provide the service for a mobile node to maintain its connectivity to the internet when it moves from one domain to another, which is referred to as handover. Because when performing the handover scheme, there is a period that the packets cannot reach the MN (Mobile Node) in time, the fast handover scheme is proposed to reduce the handover latency and pa ...

Keywords: fast handover scheme, mobile IPv6, performance analysis

15 Technical papers: Efficient micro-mobility using intra-domain multicast-based mechanisms (M&M)
Ahmed Helmy, Muhammad Jaseemuddin, Ganesha Bhaskara
November 2002 **ACM SIGCOMM Computer Communication Review**, Volume 32 Issue 5
Publisher: ACM Press
Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references, citings, index terms

One very important metric in evaluation of IP mobility protocols is handover performance. Handover occurs when a mobile node changes its network point-of-attachment. If not performed efficiently, handover delays, jitters and packet loss directly impact applications and services. With the Internet growth and heterogeneity, it becomes crucial to design efficient handover protocols that are scalable, robust and incrementally deployable. Mobile IP (MIP) has been shown to exhibit poor handover perfor ...

16 Analysis and evaluation of mobile IPv6 handovers over wireless LAN
Nicolas Montavont, Thomas Noël
December 2003 **Mobile Networks and Applications**, Volume 8 Issue 6
Publisher: Kluwer Academic Publishers
Full text available: pdf(431.59 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we analyze the IPv6 handover over wireless LANs. Mobile IPv6 is designed to manage mobile nodes movements between wireless IPv6 networks. Nevertheless, a mobile node cannot receive IP packets on its new point of attachment until the handover completes. Therefore, a number of extensions to Mobile IPv6 have been proposed to reduce the handover latency and the number of lost packets. We focus on Fast Mobile IPv6 which is an extension of Mobile IPv6 that allows the use of L2 triggers ...

Keywords: IEEE 802.11b, fast mobile IPv6, handovers, mobile IPv6, wireless LAN

17 Crypto-based identifiers (CBIDs): Concepts and applications
Gabriel Montenegro, Claude Castelluccia
February 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 1
Publisher: ACM Press
Full text available: pdf(262.76 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper addresses the identifier ownership problem. It does so by using characteristics of Statistical Uniqueness and Cryptographic Verifiability (SUCV) of certain entities which this document calls SUCV Identifiers and Addresses, or, alternatively, Crypto-based Identifiers. Their characteristics allow them to severely limit certain classes of denial-of-service attacks and hijacking attacks. SUCV addresses are particularly applicable to solve the address ownership problem that hinders mechani ...

Keywords: Security, address ownership, authorization, group management, mobile IPv6, opportunistic encryption

18 Modeling and performance evaluation II (physical and link layer): Paging and power saving in IEEE 802.11-enabled networks: a simulative study

Marco Liebsch, Martina Zitterbart

October 2006 **Proceedings of the 9th ACM international symposium on Modeling analysis and simulation of wireless and mobile systems MSWiM '06**

Publisher: ACM Press

Full text available: pdf(205.75 KB) Additional Information: full citation, abstract, references, index terms

Mobile communication systems increasingly adopt Internet Protocol solutions for transport of control and data traffic. To optimize scalability of the mobile communication infrastructure and to save mobile energy resources, mobile devices can set their network interface to power save mode, such as for instance supported by the IEEE 802.11 technology, and refrain from sending superfluous location information towards the network in case the device is idle. Such systems utilize paging to locate and ...

Keywords: IEEE 802.11, IP paging, mobility management, power saving

19 Node implementation and integration into internet: IP-enabled wireless sensor networks and their integration into the internet

Karl Mayer, Wolfgang Fritsche

May 2006 **Proceedings of the first international conference on Integrated internet ad hoc and sensor networks InterSense '06**

Publisher: ACM Press

Full text available: pdf(409.38 KB) Additional Information: full citation, abstract, references

Sensor networks become more and more important in various application areas and several application scenarios require connectivity between sensor network and the Internet. Especially scenarios of disaster management would benefit from IP-enabled sensor networks, providing a seamless integration in WAN infrastructures without a requirement for deploying proxies that convert between communication technologies.Preparing sensor networks for IP communication and integrating them into the Internet dem ...

Keywords: IP, IPv6, ad hoc networks, autoconfiguration, disaster management, wireless sensor networks

20 Modeling and validation: Analysis of the zeroconf protocol using UPPAAL

Biniam Gebremichael, Frits Vaandrager, Miaomiao Zhang

October 2006 **Proceedings of the 6th ACM & IEEE International conference on Embedded software EMSOFT '06**

Publisher: ACM Press

Full text available: pdf(229.26 KB) Additional Information: full citation, abstract, references, index terms

We report on a case study in which the model checker Uppaal is used to formally model parts of Zeroconf, a protocol for dynamic configuration of IPv4 link-local addresses that has been defined in RFC 3927 of the IETF. Our goal has been to construct a model that (a) is easy to understand by engineers,(b) comes as close as possible to the informal text (for each transition in the model there should be a corresponding piece of text in the RFC), and (c) may serve as a basis for formal verif ...

Keywords: formal methods, model checking, modelling, timed automata, validation, verification, zeroconf protocol

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